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each entry marked with a classification symbol and secondary reference marks. This authors' list, occupying eighty-four double column pages, is followed by a subject catalogue with alphabetical arrangement of authors under each principal heading. In the systematic part, each main group is provided with an index to the contained new genera and species. The number closes with a list of the journals abstracted, with abbreviated titles. T.

Notes. — The principal articles of the *Botanical Gazette* for August are: Heald, "The Electrical Conductivity of Plant Juices"; McCallum, "Nature of the Stimulus causing the Change of Form and Structure in *Proserpinaca palustris*"; Schneider, "*Rhizobia mutabile* in Artificial Culture Media"; Nelson, "Notes on Certain Species of *Antennaria*"; Reed, "A Survey of the Huron River Valley"; Ramaley, "The Trichome Structures of *Erodium cicutarium*"; and Copeland, "Two Fern Monstrosities."

The *Bulletin of the Torrey Botanical Club* for July contains the following articles: Torrey, "Cytological Changes accompanying the Secretion of Diastase"; Banker, "Historical Review of the Proposed Genera of the Hydnaceæ"; Shear, "Mycological Notes and New Species"; Durand, "Studies in North American Discomycetes: II, Some New or Noteworthy Species from Central and Western New York"; Lamson-Scribner and Merrill, "New or Noteworthy North American Grasses"; Eastwood, "New Species of *Nemophila* from the Pacific Coast"; Britton, E. G., "*Trichomanes radicans*"; Berry, "*Liriodendron celakovskii*."

The *Plant World* for July contains the following principal articles: Parish, "Through Desert and Mountain in Southern California"; Idelette Carpenter, "The Protection of Native Plants"; Pollard, "Plants used for Cuban Confectionery"; Hay, "A New Station for the Gray Polypody"; and eight pages of Mr. Pollard's "Families of Flowering Plants, — from Hydrophyllaceæ to Solanaceæ."

The first part of Vol. LIV of the *Proceedings of the Academy of Natural Sciences of Philadelphia* contains the following botanical articles: Meehan, "Contributions to the Life-History of Plants, No. XVI," and Harshberger, "The Germination of the Seeds of *Carapa guianensis*." An article by Montgomery, "On Phylogenetic Classification," though written principally from the zoölogical point of view, deals with questions of the greatest interest to botanists.

Several small papers of taxonomic interest were issued under date of August 6, as signatures of the *Proceedings of the Biological Society of Washington*.

Rhodora for July, in addition to a large number of notes of local interest, contains an article by Dr. Robinson on the protection of our native flora, descriptions of several new grasses, by Merrill, and a protest by Fernald against the substitution of *Washingtonia* for *Osmorhiza*, apropos of the discovery of *Osmorhiza obtusa* in Labrador.

The August number of *Rhodora* contains the following articles: Fernald, "*Taraxacum palustre* in America"; Davenport, "Notes on New England Ferns"; Sargent, "Additions to the Flora of Massachusetts"; Williams, "Noteworthy Carices at Sudbury, Massachusetts"; Shaw, "*Carex aurea* in Connecticut"; Norton, "New Stations for *Peltranda* and *Conopholis*"; Chamberlain, "*Aulacomnium heterostichum* in Maine"; Lee, "*Aquilegia canadensis* var. *flaviflora* in Maine"; Rich, "*Juncus torreyi* and *Ellisia nyctelea* in Massachusetts."

Torreyia for August contains the following articles: Lloyd, "Vivipary in *Podocarpus*"; Earle, "A Key to the North American Species of *Russula*"; Howe, "A Note on the Vitality of the Spores of *Marsilea*"; Abrams, "A New *Hemizonia* from California"; Britton, "An Undescribed Species of *Hydrophyllum*"; Eggert, "Notes on *Verbena*"; Shinn, "*Lunularia cruciata* in Fruit."

Recent articles not likely to meet the eye of most botanists are: Lemmon, "Conifers of the Pacific Slope," in *Sierra Club Bulletin*, Vol. IV, No. 2, and Lemmon, "Oaks of Pacific Slope," in *Transactions of Pacific States Floral Congress*.

Vol. III, Part IV, of J. Medley Wood's *Natal Plants*, concluding that volume, has recently been issued from the press of Bennett & Davis, of Durban. Each volume contains one hundred habit and detail plates with appropriate text.

Fascicle 6 of Vol. I of Mr. Howell's *Flora of Northwest America*, comprising pages 563 to 666, completes Plantaginaceæ and reaches into Pontederiaceæ.

The results of studies on relations of plants to electricity made at the Harvard botanic garden, are given in a paper by Plowman in the *American Journal of Science* for August.

The effects of a tornado in the Victoria (Kamerun) botanical garden are noted by Preuss in *Der Tropenpflanzer* for July.

In *Country Life in America* for September, H. A. Doty has an article on the Pollination of *Asclepias*, illustrated by a number of low-power photo-micrographs.

Messrs. Gardiner and Hill discuss the histology of the endosperm during germination in *Tamus* and *Galium*, in the *Proceedings of the Cambridge Philosophical Society* of August 13.

A leaf section of *Tecoma*, showing the sunken nectar gland, is published in the *Gardeners' Chronicle* for July 19.

A useful directory of agricultural experiment stations in foreign countries is published as *Bulletin No. 112* of the Office of Experiment Stations, U. S. Department of Agriculture.

The tropical growth of epiphytes, which proves detrimental to the growth of cacao and lime trees, is discussed by Howard in the *West Indian Bulletin*, Vol. III, No. 2.

An article by Fawcett on the banana industry in Jamaica is contained in No. 2 of the current volume of the *West Indian Bulletin*, which also has an article by Hart on the preparation of essential oils in the West Indies, and an article by Freeman on the aloe industry of Barbados.

Country Life in America is publishing a series of articles on the making of a country home, which, like everything else published in that journal, are beautifully and instructively illustrated.

The growth of the famous St. Michaels pineapple is described by Bernegau in *Der Tropenpflanzer* for August.

Consul Ragsdale reports on Ginseng in China, in *Advance Sheets of Consular Reports* of August 23.

An article on "Coffee; Its History and Commerce," by Marshall, is contained in the *American Journal of Pharmacy* for August.

The *World's Work* for September contains an interesting article by Howard on breeding new kinds of corn.

A comparative anatomical study of water lilies, by Chiffot, is published as fascicle 10 of the *Annales de l'Université de Lyon*.

As a reprint from the *Annals of the Carnegie Museum*, Mr. Ashe issues descriptions of a number of new Pennsylvanian species of *Cratægus*.

The opening double number of Vol. XVI of the *Annales des Sciences Naturelles, Botanique*, is entirely occupied with ovule studies of *Rosaceæ*.

A paper on the root tubercles of *Medicago* and other leguminous plants, by Professor Peirce, constitutes No. 10 of the current volume of botanical *Proceedings of the California Academy of Sciences*.

A Revision of the Japanese Umbelliferæ, by Yabe, is contained in Vol. XVI of the *Journal of the College of Science* of the Tokyo University.

The first part of Abbé Lévêillé's Monograph of the Genus *Onothera*, illustrated with numerous photograms from herbarium sheets, and anatomical and other details, has been issued by the author at Le Mans. Two other fascicles are promised for the early part of 1903 and 1904, respectively.

The alders of Japan are revised by Matsumura in Vol. XVI of the *Journal of the College of Science* of the Tokyo University.

Habit and bark photograms of *Pinus inops* are published by Professor Rothreck in *Forest Leaves* for August.

The *Fern Bulletin* for July contains the following principal articles: Anthony, "Fern Hunting in Nassau"; Watkins, "Some Ferns of the Sierra Nevada Range"; Eaton, "The Genus *Equisetum* in North America"; Gilbert, "Georgia Ferns"; Clute, "*Botrychium ternatum* and *obliquum*"; and a continuation of Clute's list of fernworts collected in Jamaica.

The genus *Selaginella* receives a considerable addition in new species in a paper by Hieronymous, in *Hedwigia* for August.

An extensive and largely illustrated paper on the mosses of Alaska, by Cardot and Thériot, forms a brochure of Vol. IV of the *Proceedings of the Washington Academy of Sciences*, issued July 31. The paper is based on collections made by members of the Harriman Alaska Expedition in 1899, and is No. 29 of the "Papers from the Harriman Alaska Expedition."

The coralline algæ of Japan form the subject of a largely illustrated paper by Yendo, in Vol. XVI of the *Journal of the College of Science* of the Tokyo University.

No. 3 of the *University of Maine Studies* consists of a preliminary list of Maine fungi, by Ricker.

Bulletin No. 96 of the Kentucky Experiment Station is in part devoted to poisonous and edible mushrooms, illustrated by a number of good photograms.

Torrendia, a gasteromycetous Amanitopsis, is described and figured by Bresadola in fascicle 2 of the current volume of *Atti della I. R. Accademia degli Aggiati in Rovereto*.